# Refine Search

**Search Results -**

| Terms | Documents |
|---|---|
| L1 and (olson or Burvenich or Sydow or Zhang or Anvret).in. | 24 |

**Database:**
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

**Search:** L5

Refine Search | Recall Text | Clear | Interrupt

## Search History

**DATE: Monday, May 01, 2006** Printable Copy Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR* | | | |
| L5 | L1 and (olson or Burvenich or Sydow or Zhang or Anvret).in. | 24 | L5 |
| L4 | L3 and adh7$4 | 7 | L4 |
| L3 | L2 and parkinso$4 | 120 | L3 |
| L2 | L1 and (allel$4 or polymorph$6) | 546 | L2 |
| L1 | adh7$6 or (alcoh$4 same dehydrogenas$4 same (huma$4 or sapien$4)) | 970 | L1 |

END OF SEARCH HISTORY

# Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

**Search Results** - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20040241798 A1

**Using default format because multiple data bases are involved.**

L4: Entry 1 of 7 File: PGPB Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040241798
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040241798 A1

TITLE: ADH7 nucleotides

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Olson, Lars | Lidingo | | SE |
| Burvenich, Silvia | Danderyd | | SE |
| Sydow, Olof | Bromma | | SE |
| Anvret, Maria | Jarfalla | | SE |
| Zhang, Zhiping | Huddinge | | SE |

US-CL-CURRENT: 435/69.1; 435/189, 435/320.1, 435/325, 435/6, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20040214213 A1

L4: Entry 2 of 7 File: PGPB Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040214213
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040214213 A1

TITLE: ADH1C

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Burvenich, Silvia | Washington | DC | US |
| Carmine, Andrea | Bromma | | SE |
| Galter, Dagmar | Bromma | | SE |

| | | |
|---|---|---|
| Olson, Lars | Lidingo | SE |
| Sydow, Olof | Stockholm | SE |

US-CL-CURRENT: 435/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

---

☐ 3. Document ID: US 20040171056 A1

L4: Entry 3 of 7 File: PGPB Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171056
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040171056 A1

TITLE: Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Stanton, Vincent P. JR. | Belmont | MA | US |

US-CL-CURRENT: 435/6; 530/350, 536/24.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 4. Document ID: US 20040110707 A1

L4: Entry 4 of 7 File: PGPB Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110707
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040110707 A1

TITLE: Method of treating neurological diseases

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Maden, Malcom | Middlesex | | GB |
| Corcoran, Jonathan Patrick Thomas | London | | GB |

US-CL-CURRENT: 514/44

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 5. Document ID: US 20010034023 A1

L4: Entry 5 of 7 File: PGPB Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034023
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010034023 A1

TITLE: Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Stanton, Vincent P. JR. | Belmont | MA | US |
| Zillmann, Martin | Shrewsbury | MA | US |

US-CL-CURRENT: 435/6; 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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☐ 6. Document ID: US 6673549 B1

L4: Entry 6 of 7 File: USPT Jan 6, 2004

US-PAT-NO: 6673549
DOCUMENT-IDENTIFIER: US 6673549 B1

TITLE: Genes expressed in C3A liver cell cultures treated with steroids

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Furness; L. Michael | Suffolk | | | GB |
| Buchbinder; Jenny L. | San Francisco | CA | | |

US-CL-CURRENT: 435/6; 435/287.2, 435/7.1, 514/44, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

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☐ 7. Document ID: WO 200224958 A1, AU 200196276 A

L4: Entry 7 of 7 File: DWPI Mar 28, 2002

DERWENT-ACC-NO: 2002-352009
DERWENT-WEEK: 200252
COPYRIGHT 2006 DERWENT INFORMATION LTD
TITLE: New genetic variants of the alcohol dehydrogenase 7 (class IV) mu or sigma polypeptide (ADH7) gene having polymorphisms, useful for treating disorders

affected by ADH7 isogene expression or function, e.g. cancer or Parkinson's disease

INVENTOR: BIEGLECKI, K M; FINKEL, K ; KAZEMI, A ; KOSHY, B ; PARKS, K E ; SAUSKER, E A

PRIORITY-DATA: 2000US-233520P (September 19, 2000)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 200224958 A1 | March 28, 2002 | E | 114 | C12Q001/68 |
| AU 200196276 A | April 2, 2002 | | 000 | C12Q001/68 |

INT-CL (IPC): C07 H 21/04; C12 Q 1/68





| Terms | Documents |
|---|---|
| L3 and adh7$4 | 7 |

=> d his full

(FILE 'HOME' ENTERED AT 11:20:59 ON 01 MAY 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:21:25 ON 01 MAY 2006

SEA ADH7? OR (ALCOHOL?(S)DEHYDROGENAS?(S)(HUMA? OR SAPIEN?))

---

7 FILE ADISCTI
5 FILE ADISINSIGHT
3 FILE ADISNEWS
33 FILE AGRICOLA
33 FILE ANABSTR
3 FILE ANTE
1 FILE AQUALINE
9 FILE AQUASCI
34 FILE BIOENG
1281 FILE BIOSIS
165 FILE BIOTECHABS
165 FILE BIOTECHDS
463 FILE BIOTECHNO
86 FILE CABA
761 FILE CAPLUS
19 FILE CEABA-VTB
2 FILE CIN
31 FILE CONFSCI
2 FILE CROPU
55 FILE DDFB
57 FILE DDFU
2317 FILE DGENE
52 FILE DISSABS
55 FILE DRUGB
78 FILE DRUGU
6 FILE EMBAL
518 FILE EMBASE
440 FILE ESBIOBASE
10 FILE FROSTI
15 FILE FSTA
1688 FILE GENBANK
7 FILE HEALSAFE
44 FILE IFIPAT
54 FILE JICST-EPLUS
6 FILE KOSMET
364 FILE LIFESCI
600 FILE MEDLINE
7 FILE NTIS
2 FILE OCEAN
424 FILE PASCAL
1 FILE PHIN
19 FILE PROMT
2 FILE PROUSDDR
3 FILE RDISCLOSURE
591 FILE SCISEARCH
955 FILE TOXCENTER
886 FILE USPATFULL
69 FILE USPAT2
1 FILE WATER
91 FILE WPIDS
1 FILE WPIFV
91 FILE WPINDEX
8 FILE IPA
1 FILE NAPRALERT
3 FILE NLDB

L1 QUE ADH7? OR (ALCOHOL?(S) DEHYDROGENAS?(S)(HUMA? OR SAPIEN?))

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D RANK

FILE 'BIOSIS, TOXCENTER, USPATFULL, CAPLUS, MEDLINE, SCISEARCH, EMBASE, BIOTECHNO, ESBIOBASE, PASCAL, LIFESCI' ENTERED AT 11:25:52 ON 01 MAY 2006

L2 7283 SEA ADH7? OR (ALCOHOL?(S) DEHYDROGENAS?(S)(HUMA? OR SAPIEN?))

L3 1582 SEA L2 AND (ALLELE? OR POLYMORPH?)
L4 127 SEA L3 AND PARKINSON?
L5 117 DUP REM L4 (10 DUPLICATES REMOVED)
D TI L5 1-117
D IBIB ABS L5 107 105 99 80 27 25 9

Connecting via Winsock to STN

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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| | | | |
|---|---|---|---|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | DEC 23 | New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2 |
| NEWS | 4 | JAN 13 | IPC 8 searching in IFIPAT, IFIUDB, and IFICDB |
| NEWS | 5 | JAN 13 | New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC |
| NEWS | 6 | JAN 17 | Pre-1988 INPI data added to MARPAT |
| NEWS | 7 | JAN 17 | IPC 8 in the WPI family of databases including WPIFV |
| NEWS | 8 | JAN 30 | Saved answer limit increased |
| NEWS | 9 | FEB 21 | STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results |
| NEWS | 10 | FEB 22 | The IPC thesaurus added to additional patent databases on STN |
| NEWS | 11 | FEB 22 | Updates in EPFULL; IPC 8 enhancements added |
| NEWS | 12 | FEB 27 | New STN AnaVist pricing effective March 1, 2006 |
| NEWS | 13 | FEB 28 | MEDLINE/LMEDLINE reload improves functionality |
| NEWS | 14 | FEB 28 | TOXCENTER reloaded with enhancements |
| NEWS | 15 | FEB 28 | REGISTRY/ZREGISTRY enhanced with more experimental spectral property data |
| NEWS | 16 | MAR 01 | INSPEC reloaded and enhanced |
| NEWS | 17 | MAR 03 | Updates in PATDPA; addition of IPC 8 data without attributes |
| NEWS | 18 | MAR 08 | X.25 communication option no longer available after June 2006 |
| NEWS | 19 | MAR 22 | EMBASE is now updated on a daily basis |
| NEWS | 20 | APR 03 | New IPC 8 fields and IPC thesaurus added to PATDPAFULL |
| NEWS | 21 | APR 03 | Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL |
| NEWS | 22 | APR 04 | STN AnaVist $500 visualization usage credit offered |
| NEWS | 23 | APR 12 | LINSPEC, learning database for INSPEC, reloaded and enhanced |
| NEWS | 24 | APR 12 | Improved structure highlighting in FQHIT and QHIT display in MARPAT |
| NEWS | 25 | APR 12 | Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected |

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
http://download.cas.org/express/v8.0-Discover/

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:20:59 ON 01 MAY 2006

=> index bioscience medicine
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:21:25 ON 01 MAY 2006

71 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s adh7? or (alcohol?(s)dehydrogenas?(s)(huma? or sapien?))
- 7 FILE ADISCTI
- 5 FILE ADISINSIGHT
- 3 FILE ADISNEWS
- 33 FILE AGRICOLA
- 33 FILE ANABSTR
- 3 FILE ANTE
- 1 FILE AQUALINE
- 9 FILE AQUASCI
- 34 FILE BIOENG
- 1281 FILE BIOSIS
- 165 FILE BIOTECHABS
- 165 FILE BIOTECHDS
- 463 FILE BIOTECHNO

13 FILES SEARCHED...

- 86 FILE CABA
- 761 FILE CAPLUS
- 19 FILE CEABA-VTB
- 2 FILE CIN
- 31 FILE CONFSCI
- 2 FILE CROPU
- 55 FILE DDFB
- 57 FILE DDFU

```
      2317   FILE DGENE
  23 FILES SEARCHED...
        52   FILE DISSABS
        55   FILE DRUGB
        78   FILE DRUGU
         6   FILE EMBAL
       518   FILE EMBASE
       440   FILE ESBIOBASE
        10   FILE FROSTI
        15   FILE FSTA
      1688   FILE GENBANK
  35 FILES SEARCHED...
         7   FILE HEALSAFE
        44   FILE IFIPAT
        54   FILE JICST-EPLUS
         6   FILE KOSMET
       364   FILE LIFESCI
       600   FILE MEDLINE
         7   FILE NTIS
         2   FILE OCEAN
       424   FILE PASCAL
  48 FILES SEARCHED...
         1   FILE PHIN
        19   FILE PROMT
         2   FILE PROUSDDR
         3   FILE RDISCLOSURE
       591   FILE SCISEARCH
       955   FILE TOXCENTER
  60 FILES SEARCHED...
       886   FILE USPATFULL
        69   FILE USPAT2
         1   FILE WATER
        91   FILE WPIDS
         1   FILE WPIFV
        91   FILE WPINDEX
         8   FILE IPA
         1   FILE NAPRALERT
         3   FILE NLDB

  55 FILES HAVE ONE OR MORE ANSWERS,   71 FILES SEARCHED IN STNINDEX

L1   QUE ADH7? OR (ALCOHOL?(S) DEHYDROGENAS?(S)(HUMA? OR SAPIEN?))

=> d rank
F1        2317   DGENE
F2        1688   GENBANK
F3        1281   BIOSIS
F4         955   TOXCENTER
F5         886   USPATFULL
F6         761   CAPLUS
F7         600   MEDLINE
F8         591   SCISEARCH
F9         518   EMBASE
F10        463   BIOTECHNO
F11        440   ESBIOBASE
F12        424   PASCAL
F13        364   LIFESCI
F14        165   BIOTECHABS
F15        165   BIOTECHDS
F16         91   WPIDS
F17         91   WPINDEX
F18         86   CABA
F19         78   DRUGU
F20         69   USPAT2
F21         57   DDFU
```

```
F22          55   DDFB
F23          55   DRUGB
F24          54   JICST-EPLUS
F25          52   DISSABS
F26          44   IFIPAT
F27          34   BIOENG
F28          33   AGRICOLA
F29          33   ANABSTR
F30          31   CONFSCI
F31          19   CEABA-VTB
F32          19   PROMT
F33          15   FSTA
F34          10   FROSTI
F35           9   AQUASCI
F36           8   IPA
F37           7   ADISCTI
F38           7   HEALSAFE
F39           7   NTIS
F40           6   EMBAL
F41           6   KOSMET
F42           5   ADISINSIGHT
F43           3   ADISNEWS
F44           3   ANTE
F45           3   RDISCLOSURE
F46           3   NLDB
F47           2   CIN
F48           2   CROPU
F49           2   OCEAN
F50           2   PROUSDDR
F51           1   AQUALINE
F52           1   PHIN
F53           1   WATER
F54           1   WPIFV
F55           1   NAPRALERT

=> file f3-f13
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                4.27       4.48

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FILE 'PASCAL' ENTERED AT 11:25:52 ON 01 MAY 2006


FILE 'LIFESCI' ENTERED AT 11:25:52 ON 01 MAY 2006


```
=> s adh7? or (alcohol?(s)dehydrogenas?(s)(huma? or sapien?))
   9 FILES SEARCHED...
L2        7283 ADH7? OR (ALCOHOL?(S) DEHYDROGENAS?(S)(HUMA? OR SAPIEN?))

=> s l2 and (allele? or polymorph?)
L3        1582 L2 AND (ALLELE? OR POLYMORPH?)

=> s l3 and parkinson?
L4         127 L3 AND PARKINSON?

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5          117 DUP REM L4 (10 DUPLICATES REMOVED)

=> d ti l5 1-117

L5   ANSWER 1 OF 117  USPATFULL on STN
TI     Novel 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836,
       46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229,
       22325, 46863 and 32252 molecules and uses therefor

L5   ANSWER 2 OF 117  USPATFULL on STN
TI     Proteins, polynucleotides encoding them and methods of using the same

L5   ANSWER 3 OF 117  USPATFULL on STN
TI     Drug targets for the treatment of neurodegenerative disorders

L5   ANSWER 4 OF 117  USPATFULL on STN
TI     Drug targets for the treatment of neurodegenerative disorders

L5   ANSWER 5 OF 117  USPATFULL on STN
TI     Diagnosis and treatment system for "reward deficiency syndrome" (RDS)
       and related behaviors

L5   ANSWER 6 OF 117  USPATFULL on STN
TI     Compositions and treatment methods

L5   ANSWER 7 OF 117  USPATFULL on STN
TI     Methods and compositions for treating hematological disorders using
       9118, 990, 17662, 81982, 630, 21472, 17692, 19290, 21620, 21689, 28899,
       53659, 64549, 9465, 23544, 7366, 27417, 57259, 21844, 943, 2061, 5891,
       9137, 13908, 14310, 17600, 25584, 27824, 28469, 38947, 53003, 965,
       56639, 9661, 16052, 1521, 6662, 13913, 12405 or 5014

L5   ANSWER 8 OF 117  USPATFULL on STN
TI     Molecular toxicology modeling

L5   ANSWER 9 OF 117  USPATFULL on STN
TI     Cloning of a gene mutation for parkinson's disease

L5   ANSWER 10 OF 117  USPATFULL on STN
```

TI Intracellular amyloid-beta binding (ERAB) polypeptide-related assays

L5 ANSWER 11 OF 117 USPATFULL on STN
TI Substituted furo[2,3-b]pyridine derivatives

L5 ANSWER 12 OF 117 USPATFULL on STN
TI Flea head, nerve cord, hindgut and malpighian tubule nucleic acid molecules, proteins and uses thereof

L5 ANSWER 13 OF 117 USPATFULL on STN
TI Novel nucleic acids and polypeptides

L5 ANSWER 14 OF 117 USPATFULL on STN
TI Novel human genes and methods of use thereof

L5 ANSWER 15 OF 117 USPATFULL on STN
TI Enzymes

L5 ANSWER 16 OF 117 USPATFULL on STN
TI Novel method for down-regulation of amyloid

L5 ANSWER 17 OF 117 USPATFULL on STN
TI Therapeutic treatment methods 2

L5 ANSWER 18 OF 117 USPATFULL on STN
TI Pharmaceutical compositions and methods for treating, preventing, and managing cholesterol, dyslipidemia, and related disorders

L5 ANSWER 19 OF 117 USPATFULL on STN
TI Method of treating cancer using dithiocarbamate derivatives

L5 ANSWER 20 OF 117 USPATFULL on STN
TI 87 human secreted proteins

L5 ANSWER 21 OF 117 USPATFULL on STN
TI Neurothrophic componentss of the adnf 1 complex

L5 ANSWER 22 OF 117 USPATFULL on STN
TI Methods and compositions for treating hematological disorders using 9118, 990, 17662, 81982, 630, 21472, 17692, 19290, 21620, 21689, 28899, 53659, 64549, 9465, 23544, 7366, 27417, 57259, 21844, 943, 2061, 5891, 9137, 13908, 14310, 17600, 25584, 27824, 28469, 38947, 53003, 965, 56639, 9661, 16052, 1521, 6662, 13913, 12405 or 5014

L5 ANSWER 23 OF 117 USPATFULL on STN
TI Compositions and methods for modulating S-nitrosoglutathione reductase

L5 ANSWER 24 OF 117 USPATFULL on STN
TI Diagnosis and treatment system for reward deficiency syndrome (RDS) and related behaviors

L5 ANSWER 25 OF 117 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 1
TI A rare truncating mutation in ADH1C (G78Stop) shows significant association with **Parkinson** disease in a large international sample.

L5 ANSWER 26 OF 117 USPATFULL on STN DUPLICATE 2
TI ADH1C

L5 ANSWER 27 OF 117 USPATFULL on STN
TI **ADH7** nucleotides

L5 ANSWER 28 OF 117 USPATFULL on STN
TI Method for cohort selection

L5 ANSWER 29 OF 117 USPATFULL on STN
TI Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing

L5 ANSWER 30 OF 117 USPATFULL on STN
TI Therapeutic treatment methods

L5 ANSWER 31 OF 117 USPATFULL on STN
TI Novel human enzyme family members and uses thereof

L5 ANSWER 32 OF 117 USPATFULL on STN
TI Method of treating neurological diseases

L5 ANSWER 33 OF 117 USPATFULL on STN
TI Drug metabolizing enzymes

L5 ANSWER 34 OF 117 USPATFULL on STN
TI Molecular toxicology modeling

L5 ANSWER 35 OF 117 USPATFULL on STN
TI Novel proteins and nucleic acids encoding same

L5 ANSWER 36 OF 117 USPATFULL on STN
TI Novel proteins and nucleic acids encoding same

L5 ANSWER 37 OF 117 USPATFULL on STN
TI Novel proteins and nucleic acids encoding same

L5 ANSWER 38 OF 117 USPATFULL on STN
TI Novel 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 and 32252 molecules and uses therefor

L5 ANSWER 39 OF 117 USPATFULL on STN
TI Furanone derivatives

L5 ANSWER 40 OF 117 USPATFULL on STN
TI Novel proteins and nucleic acids encoding same

L5 ANSWER 41 OF 117 USPATFULL on STN
TI Proteins and nucleic acids encoding same

L5 ANSWER 42 OF 117 USPATFULL on STN
TI Novel proteins and nucleic acids encoding same

L5 ANSWER 43 OF 117 USPATFULL on STN
TI Novel proteins and nucleic acids encoding same

L5 ANSWER 44 OF 117 USPATFULL on STN
TI Novel human polynucleotides and polypeptides encoded thereby

L5 ANSWER 45 OF 117 USPATFULL on STN
TI Novel 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 and 8843 molecules and uses therefor

L5 ANSWER 46 OF 117 USPATFULL on STN
TI Proteins, polynucleotides encoding them and methods of using the same

L5 ANSWER 47 OF 117 USPATFULL on STN
TI Nucleic acids and polypeptides

L5 ANSWER 48 OF 117 USPATFULL on STN
TI Genes expressed in C3A liver cell cultures treated with steroids

L5 ANSWER 49 OF 117 USPATFULL on STN
TI Nucleic acids, proteins, and antibodies

L5 ANSWER 50 OF 117 USPATFULL on STN
TI Methods for genetic analysis of DNA using biased amplification of **polymorphic** sites

L5 ANSWER 51 OF 117 USPATFULL on STN
TI Novel nucleic acids and polypeptides

L5 ANSWER 52 OF 117 USPATFULL on STN
TI Novel nucleic acids and polypeptides

L5 ANSWER 53 OF 117 USPATFULL on STN
TI 207 human secreted proteins

L5 ANSWER 54 OF 117 USPATFULL on STN
TI Furanone derivatives

L5 ANSWER 55 OF 117 USPATFULL on STN
TI Individualization of therapy with antipsychotics

L5 ANSWER 56 OF 117 USPATFULL on STN
TI Nucleic acid hairpin probes and uses thereof

L5 ANSWER 57 OF 117 USPATFULL on STN
TI Novel method for down-regulation of amyloid

L5 ANSWER 58 OF 117 USPATFULL on STN
TI Novel human genes and methods of use thereof

L5 ANSWER 59 OF 117 USPATFULL on STN
TI Sequence-directed DNA-binding molecules compositons and methods

L5 ANSWER 60 OF 117 USPATFULL on STN
TI Human oxidoreductase proteins

L5 ANSWER 61 OF 117 USPATFULL on STN
TI Novel nucleic acids and polypeptides

L5 ANSWER 62 OF 117 USPATFULL on STN
TI Novel human enzyme family members and uses thereof

L5 ANSWER 63 OF 117 USPATFULL on STN
TI Blood cell deficiency treatment method

L5 ANSWER 64 OF 117 USPATFULL on STN
TI Methods for genetic analysis of DNA to detect sequence variances

L5 ANSWER 65 OF 117 USPATFULL on STN
TI Flea head, nerve cord, hindgut and malpighian tubule nucleic acid molecules, proteins and uses thereof

L5 ANSWER 66 OF 117 USPATFULL on STN
TI Restriction enzyme genotyping

L5 ANSWER 67 OF 117 USPATFULL on STN
TI Individualization of therapy with antidepressants

L5 ANSWER 68 OF 117 USPATFULL on STN
TI 87 human secreted proteins

L5 ANSWER 69 OF 117 USPATFULL on STN
TI Nucleic acid molecules, polypeptides and uses therefor, including diagnosis and treatment of Alzheimer's disease

L5 ANSWER 70 OF 117 USPATFULL on STN
TI Secreted protein HFEAF41

L5 ANSWER 71 OF 117 USPATFULL on STN
TI Novel human 39228, 21956, 25856, 22244, 8701, 32263, 50250, 55158, 47765, 62088, 50566, and 48118 molecules and uses therefor

L5 ANSWER 72 OF 117 USPATFULL on STN
TI Nucleic acids, proteins, and antibodies

L5 ANSWER 73 OF 117 USPATFULL on STN
TI Secreted protein HFEAF41

L5 ANSWER 74 OF 117 USPATFULL on STN
TI Novel nucleic acid sequences encoding a human ubiquitin protease, lipase, dynamin, short chain dehydrogenase, and ADAM-TS metalloprotease and uses therefor

L5 ANSWER 75 OF 117 USPATFULL on STN
TI Computer-assisted means for assessing lifestyle risk factors

L5 ANSWER 76 OF 117 USPATFULL on STN
TI 33200, a novel human dehydrogenase/reductase family member and uses thereof

L5 ANSWER 77 OF 117 USPATFULL on STN
TI Secreted protein HFEAF41

L5 ANSWER 78 OF 117 USPATFULL on STN
TI Nucleic acids and polypeptides

L5 ANSWER 79 OF 117 USPATFULL on STN
TI 32140, a novel human aldehyde dehydrogenase and uses therefor

L5 ANSWER 80 OF 117 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Frequencies of single nucleotide **polymorphism** in alcohol dehydrogenase7 gene in patients with multiple system atrophy and controls

L5 ANSWER 81 OF 117 USPATFULL on STN
TI Human polynucleotides, polypeptides, and antibodies

L5 ANSWER 82 OF 117 USPATFULL on STN
TI Novel method for down-regulation of amyloid

L5 ANSWER 83 OF 117 USPATFULL on STN
TI Secreted protein HFEAF41

L5 ANSWER 84 OF 117 USPATFULL on STN
TI Nucleic acids, proteins, and antibodies

L5 ANSWER 85 OF 117 USPATFULL on STN
TI 25206, a novel human short-chain dehydrogenase/reductase family member and uses thereof

L5 ANSWER 86 OF 117 USPATFULL on STN
TI Human polynucleotides, polypeptides, and antibodies

L5 ANSWER 87 OF 117 USPATFULL on STN
TI Nucleic acid hairpin probes and uses thereof

L5 ANSWER 88 OF 117 USPATFULL on STN
TI 25219, a novel human aminotransferase and uses therefor

L5 ANSWER 89 OF 117 USPATFULL on STN
TI Nucleic acids, proteins, and antibodies

L5 ANSWER 90 OF 117 USPATFULL on STN
TI 22244 and 8701, novel human dehydrogenases and uses thereof

L5 ANSWER 91 OF 117 USPATFULL on STN
TI Nucleic acids, proteins and antibodies

L5 ANSWER 92 OF 117 USPATFULL on STN
TI Nucleic acids, proteins and antibodies

L5 ANSWER 93 OF 117 USPATFULL on STN
TI Nucleic, acids, proteins, and antibodies

L5 ANSWER 94 OF 117 USPATFULL on STN
TI 21612, 21615, 21620, 21676, 33756, novel **human alcohol dehydrogenases**

L5 ANSWER 95 OF 117 USPATFULL on STN
TI 21509 and 33770, novel human dehydrogenase family members and uses thereof

L5 ANSWER 96 OF 117 USPATFULL on STN
TI Methods for genetic analysis of DNA using biased amplification of **polymorphic** sites

L5 ANSWER 97 OF 117 USPATFULL on STN
TI Sequence directed DNA binding molecules compositions and methods

L5 ANSWER 98 OF 117 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
TI Common psychiatric diseases and human genetic variation

L5 ANSWER 99 OF 117 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 3
TI ADH1C NONSENSE MUTATION IN **PARKINSON** DISEASE.

L5 ANSWER 100 OF 117 USPATFULL on STN
TI Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing

L5 ANSWER 101 OF 117 USPATFULL on STN
TI Intracellular amyloid-beta peptide binding (ERAB) polypeptide

L5 ANSWER 102 OF 117 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 4
TI Alcohol dehydrogenase **polymorphism** and **Parkinson**'s disease.

L5 ANSWER 103 OF 117 USPATFULL on STN
TI Surrogate tolerogenesis for the development of tolerance to xenografts

L5 ANSWER 104 OF 117 USPATFULL on STN
TI Sequence-directed DNA binding molecules compositions and methods

L5 ANSWER 105 OF 117 MEDLINE on STN DUPLICATE 5
TI Alcohol dehydrogenase **alleles** in **Parkinson**'s disease.

L5 ANSWER 106 OF 117 CAPLUS COPYRIGHT 2006 ACS on STN
TI The emerging field of ecogenetics

L5 ANSWER 107 OF 117 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Association of an alcohol dehydrogenase **allele** with **Parkinson**'s disease.

L5 ANSWER 108 OF 117 USPATFULL on STN
TI Method of determining DNA sequence preference of a DNA-binding molecule

L5 ANSWER 109 OF 117 USPATFULL on STN
TI Sequence-directed DNA-binding molecules compositions and methods

L5 ANSWER 110 OF 117 USPATFULL on STN
TI Sequence-directed DNA-binding molecules compositions and methods

L5 ANSWER 111 OF 117 USPATFULL on STN
TI Screening assay for the detection of DNA-binding molecules

L5 ANSWER 112 OF 117 USPATFULL on STN
TI Method of constructing sequence-specific DNA-binding molecules

L5 ANSWER 113 OF 117 USPATFULL on STN
TI Method of ordering sequence binding preferences of a DNA-binding molecule

L5 ANSWER 114 OF 117 USPATFULL on STN
TI Sequence-directed DNA-binding molecules compositions and methods

L5 ANSWER 115 OF 117 USPATFULL on STN
TI Allelic diagnosis of susceptibility to compulsive disorder

L5 ANSWER 116 OF 117 USPATFULL on STN
TI Allelic association of the human dopamine(D2) receptor gene in compulsive disorders

L5 ANSWER 117 OF 117 USPATFULL on STN
TI Allelic association of the human dopamine (D.sub.2) receptor gene in compulsive disorders such as alcoholism

=> d ibib abs l5 107 105 99 80 27 25 9

L5 ANSWER 107 OF 117 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2001:97716 BIOSIS
DOCUMENT NUMBER: PREV200100097716
TITLE: Association of an alcohol dehydrogenase **allele** with **Parkinson**'s disease.
AUTHOR(S): Buervenich, S. [Reprint author]; Sydow, O.; Carmine, A.; Galter, D.; Zhang, Z.; Anvret, M.; Olson, L.
CORPORATE SOURCE: Danderyd Hospital, Stockholm, Sweden
SOURCE: Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-476.10. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 21 Feb 2001
Last Updated on STN: 15 Feb 2002
AB Because of the important role of **alcohol dehydrogenases** (ADH; EC 1.1.1.1) in retinoid and dopamine metabolism and/or aldehyde detoxification, mutations in genes for these enzymes, clustered on **human** chromosome 4q21-25, may be genetic risk factors for **Parkinson**'s disease and other disorders of the dopamine system. Recently, a form of autosomal-dominant **parkinsonism** has been mapped to this area and a mutation was found in the gene for synuclein, which is mapped in close vicinity to the alcohol dehydrogenase gene

cluster. Because of the lack of synuclein mutations in other large **Parkinson**'s disease materials, the possibility of further genetic factors in the linked region on chromosome four remains. We sequenced the human class IV ADH gene (previously named **ADH7**, currently termed ADH4 according to the most recent class-oriented nomenclature) in ten **Parkinson** patients. Seven **polymorphisms** were identified. These **polymorphisms** could be assigned to four **alleles** (A1-A4) in our Swedish sample. Frequencies of those four **alleles** and the wildtype **allele** in 78 PD patients and 130 controls were determined. A significant association of the A1 **allele** with PD (odds ratio 2.87 (95% CI 1.35 to 6.08)) was found. The association was strongest in familial cases (odds ratio 4.86 (95% CI 1.89 to 12.75)). Thus, our results show an association between a certain ADH4 **allele** and PD. This suggests a role for genetic variations of ADH4 as risk factors for the development of PD. Functional studies are currently carried out to elucidate the effects of the identified pholymorphisms on ADH4 gene function.

L5 ANSWER 105 OF 117 MEDLINE on STN DUPLICATE 5
ACCESSION NUMBER: 2000452803 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11009184
TITLE: Alcohol dehydrogenase **alleles** in **Parkinson**'s disease.
AUTHOR: Buervenich S; Sydow O; Carmine A; Zhang Z; Anvret M; Olson L
CORPORATE SOURCE: Department of Neuroscience, Karolinska Institute, Stockholm, Sweden.
SOURCE: Movement disorders : official journal of the Movement Disorder Society, (2000 Sep) Vol. 15, No. 5, pp. 813-8. Journal code: 8610688. ISSN: 0885-3185.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200101
ENTRY DATE: Entered STN: 22 Mar 2001
Last Updated on STN: 22 Mar 2001
Entered Medline: 9 Jan 2001

AB Mutations in alcohol dehydrogenase (ADH; EC 1.1.1.1) genes may be of interest in the etiology of **Parkinson**'s disease (PD) because of the important role these enzymes play in retinoid and dopamine metabolism and/or aldehyde detoxification. The location of several alcohol dehydrogenase genes in a cluster on chromosome 4 lends further support to ADH genes being candidates for this disorder, because recently a form of autosomal-dominant **parkinsonism** has been mapped to this area. We sequenced the promoter and coding regions and part of the introns of the human class IV ADH gene in 10 patients with PD. Seven different **polymorphisms** were identified. These **polymorphisms** could be assigned to four **alleles** (A1-A4). We then determined the frequencies of those four **alleles** and the wild-type **allele** in 78 patients with PD and 130 control subjects and found a significant association of the A1 **allele** with PD (odds ratio = 2.87; 95% confidence interval = 1.35-6.08). In familial cases, the association was strongest (odds ratio = 4.86; 95% confidence interval = 1.89-12.75). Two patients were homozygous for A1 whereas none of the 130 control subjects was found to be homozygous. Our results show an association between a certain ADH4 (formerly known as **ADH7** in humans) **allele** and PD. This suggests a role for genetic variations of ADH4 as risk factors for the development of PD. Our data also show that the observed **polymorphisms** alone are not sufficient to cause symptoms. Further genetic and/or environmental factors have to be involved.

L5 ANSWER 99 OF 117 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 3

ACCESSION NUMBER: 2003:380970 BIOSIS
DOCUMENT NUMBER: PREV200300380970
TITLE: ADH1C NONSENSE MUTATION IN **PARKINSON** DISEASE.
AUTHOR(S): Buervenich, S. [Reprint Author]; Carmine, A. [Reprint Author]; Galter, D. [Reprint Author]; Matsuura, T.; Ashizawa, T.; Wullner, U.; Klockgether, T.; Nissbrandt, H.; Meister, B. [Reprint Author]; Anvret, M.; Sydow, O.; Olson, L. [Reprint Author]
CORPORATE SOURCE: Neuroscience, Molecular Medicine, Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden
SOURCE: Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 887.5. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DOCUMENT TYPE: Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 20 Aug 2003
Last Updated on STN: 20 Aug 2003

AB Genes encoding alcohol and aldehyde dehydrogenases may be considered candidate genes involved in the pathogenesis of neurodegenerative disorders due to the multiple roles these enzymes play in detoxification pathways, dopamine metabolism and retinoic acid synthesis. In a previous study, association of a certain **allele** of **human** class IV **alcohol dehydrogenase** (ADH4) with **Parkinsons** disease was found in our Swedish sample. Since the gene for ADH4 is located within a large cluster of **alcohol dehydrogenases** on **human** chromosome 4q21-q23, we extended the molecular genetic analyses to adjacent genes encoding other **alcohol dehydrogenases.** Thirteen known single-nucleotide **polymorphisms** (SNPs) distributed across this cluster were selected for further analysis in a subsequent study. The SNPs were located within the genes coding for ADH1B and ADH1C, class III ADH and class IV ADH. Distributions of these SNPs between 123 Swedish **Parkinson** patients and 127 geographically matched controls were investigated. One rare nonsense mutation in the gene encoding ADH1C was present in three patients with **Parkinsons** disease but completely absent from control samples. This mutation leads to an early truncation of the protein chain (after 78 of 375 amino acid residues). Neither the active site nor the cofactor binding site are included in the remaining protein chain.

L5 ANSWER 80 OF 117 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:837973 SCISEARCH
THE GENUINE ARTICLE: 723PF
TITLE: Frequencies of single nucleotide **polymorphism** in alcohol dehydrogenase7 gene in patients with multiple system atrophy and controls
AUTHOR: Kim H S; Lee M S (Reprint)
CORPORATE SOURCE: Yonsei Univ, Yongdong Severance Hosp, Coll Med, Dept Neurol, Brain Korea Project 21, 146-92 Dogok Dong, Seoul 120749, South Korea (Reprint); Yonsei Univ, Yongdong Severance Hosp, Coll Med, Dept Neurol, Brain Korea Project 21, Seoul 120749, South Korea
COUNTRY OF AUTHOR: South Korea
SOURCE: MOVEMENT DISORDERS, (SEP 2003) Vol. 18, No. 9, pp. 1065-1067.
ISSN: 0885-3185.
PUBLISHER: WILEY-LISS, DIV JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012 USA.
DOCUMENT TYPE: Article; Journal

LANGUAGE: English
REFERENCE COUNT: 21
ENTRY DATE: Entered STN: 10 Oct 2003
Last Updated on STN: 10 Oct 2003
*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*

AB A polymerase chain reaction and direct sequencing of the **ADH7** gene were carried out in 50 controls and 50 patients with probable multiple system atrophy (MSA). Seven SNPs, one insertion, and one mismatch were found in patients with MSA and controls. There was no significant difference in the frequencies of each SNP between the patients and the controls (P > 0.05). Interpretation of this negative finding should be cautious in view of the relatively small number of cases. (C) 2003 Movement Disorder Society.

L5 ANSWER 27 OF 117 USPATFULL on STN
ACCESSION NUMBER: 2004:307127 USPATFULL
TITLE: **ADH7** nucleotides
INVENTOR(S): Olson, Lars, Lidingo, SWEDEN
Burvenich, Silvia, Danderyd, SWEDEN
Sydow, Olof, Bromma, SWEDEN
Anvret, Maria, Jarfalla, SWEDEN
Zhang, Zhiping, Huddinge, SWEDEN
PATENT ASSIGNEE(S): KAROLINSKA INNOVATIONS AB, STOCKHOLM, SWEDEN (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 2004241798 | A1 | 20041202 |
| APPLICATION INFO.: | US 2003-619545 | A1 | 20030716 (10) |

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-720200, filed on 24 May 2001, ABANDONED A 371 of International Ser. No. WO 1999-SE1136, filed on 23 Jun 1999, UNKNOWN

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | SE 1998-2294 | 19980626 |
| | US 1998-90925P | 19980626 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: YOUNG & THOMPSON, 745 SOUTH 23RD STREET, 2ND FLOOR, ARLINGTON, VA, 22202
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 990
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Isolated human nucleic acids implicated in **Parkinson**'s disease and the uses thereof, such as in diagnostic and prognostic methods and in pharmaceutical preparations.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 25 OF 117 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 1
ACCESSION NUMBER: 2005:104854 BIOSIS
DOCUMENT NUMBER: PREV200500108762
TITLE: A rare truncating mutation in ADH1C (G78Stop) shows significant association with **Parkinson** disease in a large international sample.
AUTHOR(S): Buervenich, Silvia [Reprint Author]; Carmine, Andrea; Galter, Dagmar; Shahabi, Haydeh N.; Johnels, Bo; Holmberg, Bjorn; Ahlberg, Jarl; Nissbrandt, Hans; Eerola, Johanna; Hellstrom, Olli; Tienari, Pentti J.; Matsuura, Tohru; Ashizawa, Tetsuo; Wullner, Ullrich; Klockgether, Thomas; Zimprich, Alexander; Gasser, Thomas; Hanson, Melissa;

Waseem, Shamaila; Singleton, Andrew; McMahon, Francis J.; Anvret, Maria; Sydow, Olof; Olson, Lars

CORPORATE SOURCE: Mood and Anxiety Disorders ProgramGenet UnitNIH,Dept Hlth and Human Serv, NIMH, 35 Convent Dr,Room 1A-209, Bethesda, MD, 20892, USA
buervens@intra.nimh.nih.gov

SOURCE: Archives of Neurology, (January 2005) Vol. 62, No. 1, pp. 74-78. print.
ISSN: 0003-9942 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 16 Mar 2005
Last Updated on STN: 16 Mar 2005

AB Background: Alcohol dehydrogenases (ADHs) may be involved in the pathogenesis of neurodegenerative disorders because of their multiple roles in detoxification pathways and retinoic acid synthesis. In a previous study, significant association of an ADH class IV **allele** with **Parkinson** disease (PD) was found in a Swedish sample. Patients: The previously associated single-nucleotide **polymorphism** plus 12 further **polymorphisms** in the ADH cluster on human chromosome 4q23 were screened for association in an extension of the original sample that now included 123 Swedish PD patients and 127 geographically matched control subjects. A rare nonsense single-nucleotide **polymorphism** in ADH1C (G78stop, rs283413) was identified in 3 of these patients but in no controls. To obtain sufficient power to detect a possible association of this rare variant with disease, we screened a large international sample of 1076 PD patients of European ancestry and 940 matched controls. Results: The previously identified association with an ADH class IV **allele** remained significant (P<.02) in the extended Swedish study. Furthermore, in the international collaboration, the G78stop mutation in ADH1C was found in 22 (2.0%) of the PD patients but only in 6 controls (0.6%). This association was statistically significant (x12 = 7.5; 2-sided P=.007; odds ratio, 3.25 (95% confidence interval, 1.31-8.05)). In addition, the G78stop mutation was identified in 4 (10.0%) of 40 Caucasian index cases with PD with mainly hereditary forms of the disorder. Conclusion: Findings presented herein provide further evidence for mutations in genes encoding ADHs as genetic risk factors for PD.

L5 ANSWER 9 OF 117 USPATFULL on STN

ACCESSION NUMBER: 2006:43224 USPATFULL

TITLE: Cloning of a gene mutation for **parkinson**'s disease

INVENTOR(S): Polymeropoulous, Mihael H., Potomac, MD, UNITED STATES
Lavedan, Christian, North Potomac, MD, UNITED STATES
Leroy, Elisabeth, Washington, DC, UNITED STATES
Nussbaum, Robert L., Chevy Chase, MD, UNITED STATES
Johnson, William G., Short Hills, NJ, UNITED STATES
Duvoisin, Roger C., Sante Fe, NM, UNITED STATES

PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Department of Health and Human Services, Washington, DC, UNITED STATES (U.S. corporation)

| | NUMBER | KIND | DATE | |
|---|---|---|---|---|
| PATENT INFORMATION: | US 7001720 | B1 | 20060221 | |
| | WO 9859050 | | 19981230 | |
| APPLICATION INFO.: | US 1999-446628 | | 19980625 | (9) |
| | WO 1998-US13071 | | 19980625 | |
| | | | 20010919 | PCT 371 date |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | US 1997-50684P | 19970625 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Spector, Lorraine
ASSISTANT EXAMINER: Lockard, Jon M
LEGAL REPRESENTATIVE: Venable LLP, Hobbs, Ann S.
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 16 Drawing Page(s)
LINE COUNT: 1638
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Parkinson**'s disease (PD) is a common neurodegenrative disorder with a lifetime incidence of approximately 2 percent. It was recently reported that a PD susceptibility gene is located on the long arm of human chromosome four. The present invention reports the subsequent identification of a mutation in the alpha synuclein gene, which codes for a presynaptic protein thought to be involved in neuronal plasticity. The finding of a specific molecular alteration which is causative for PD will permit the detailed understanding of the pathophysiology of the disorder, which will lead to potential therapetuic interventions, as well as a means for diagnosing individuals having an increased risk of developing the disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 11:20:59 ON 01 MAY 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:21:25 ON 01 MAY 2006
SEA ADH7? OR (ALCOHOL?(S)DEHYDROGENAS?(S)(HUMA? OR SAPIEN?))

| | |
|---|---|
| 7 | FILE ADISCTI |
| 5 | FILE ADISINSIGHT |
| 3 | FILE ADISNEWS |
| 33 | FILE AGRICOLA |
| 33 | FILE ANABSTR |
| 3 | FILE ANTE |
| 1 | FILE AQUALINE |
| 9 | FILE AQUASCI |
| 34 | FILE BIOENG |
| 1281 | FILE BIOSIS |
| 165 | FILE BIOTECHABS |
| 165 | FILE BIOTECHDS |
| 463 | FILE BIOTECHNO |
| 86 | FILE CABA |
| 761 | FILE CAPLUS |
| 19 | FILE CEABA-VTB |
| 2 | FILE CIN |
| 31 | FILE CONFSCI |
| 2 | FILE CROPU |
| 55 | FILE DDFB |
| 57 | FILE DDFU |
| 2317 | FILE DGENE |
| 52 | FILE DISSABS |
| 55 | FILE DRUGB |
| 78 | FILE DRUGU |
| 6 | FILE EMBAL |
| 518 | FILE EMBASE |
| 440 | FILE ESBIOBASE |
| 10 | FILE FROSTI |
| 15 | FILE FSTA |

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          1688   FILE GENBANK
             7   FILE HEALSAFE
            44   FILE IFIPAT
            54   FILE JICST-EPLUS
             6   FILE KOSMET
           364   FILE LIFESCI
           600   FILE MEDLINE
             7   FILE NTIS
             2   FILE OCEAN
           424   FILE PASCAL
             1   FILE PHIN
            19   FILE PROMT
             2   FILE PROUSDDR
             3   FILE RDISCLOSURE
           591   FILE SCISEARCH
           955   FILE TOXCENTER
           886   FILE USPATFULL
            69   FILE USPAT2
             1   FILE WATER
            91   FILE WPIDS
             1   FILE WPIFV
            91   FILE WPINDEX
             8   FILE IPA
             1   FILE NAPRALERT
             3   FILE NLDB
L1             QUE ADH7? OR (ALCOHOL?(S) DEHYDROGENAS?(S)(HUMA? OR SAPIEN?))

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               D RANK

     FILE 'BIOSIS, TOXCENTER, USPATFULL, CAPLUS, MEDLINE, SCISEARCH, EMBASE,
     BIOTECHNO, ESBIOBASE, PASCAL, LIFESCI' ENTERED AT 11:25:52 ON 01 MAY 2006
L2          7283 SEA ADH7? OR (ALCOHOL?(S) DEHYDROGENAS?(S)(HUMA? OR SAPIEN?))

L3          1582 SEA L2 AND (ALLELE? OR POLYMORPH?)
L4           127 SEA L3 AND PARKINSON?
L5           117 DUP REM L4 (10 DUPLICATES REMOVED)
                 D TI L5 1-117
                 D IBIB ABS L5 107 105 99 80 27 25 9


     FILE HOME

     FILE STNINDEX

     FILE BIOSIS
     FILE COVERS 1969 TO DATE.
     CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
     FROM JANUARY 1969 TO DATE.

     RECORDS LAST ADDED: 26 April 2006 (20060426/ED)


     FILE TOXCENTER

     FILE COVERS 1907 TO 25 Apr 2006 (20060425/ED)

     This file contains CAS Registry Numbers for easy and accurate substance
     identification.

     The MEDLINE file segment has been updated with 2006 MEDLINE data and
     features.  See HELP RLOAD for details.

     TOXCENTER thesauri in the /CN, /CT, and /MN fields incorporate the
     MeSH 2006 vocabulary.
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